**LOGO! DM8 12/24R expansion module, PS/I/O: 12, 24V/12V/24V/relay, 2 MW, 4 DI/4 DO for LOGO! 8**

**Installation type/mounting**
- Mounting: on 35 mm DIN rail, 2 spacing units wide

**Supply voltage**
- Permissible range, lower limit (DC): 10.8 V
- Permissible range, upper limit (DC): 28.8 V

**Digital inputs**
- Number of digital inputs: 4
- Input voltage:
  - Type of input voltage: DC
  - for signal "0": < 5 V DC
  - for signal "1": > 8.5 V
- Input current:
  - for signal "0", max. (permmissible quiescent current): 0.88 mA
  - for signal "1", typ.: 1.5 mA
- Input delay (for rated value of input voltage):
  - for standard inputs:
    - at "0" to "1", max.: 1.5 ms
    - at "1" to "0", max.: 1.5 ms

**Digital outputs**
- Number of digital outputs: 4; Relays
- Short-circuit protection: No
- Controlling a digital input: Yes
- Switching capacity of the outputs:
  - on lamp load, max.: 1 000 W
- Output current:
  - for signal "1" rated value: 5 A
  - for signal "1" minimum load current: 100 mA
- Parallel switching of two outputs:
  - for uprating: No
- Switching frequency:
  - with resistive load, max.: 2 Hz
  - with inductive load, max.: 0.5 Hz
  - mechanical, max.: 10 Hz
- Relay outputs:
  - Switching capacity of contacts:
    - with inductive load, max.: 3 A
    - with resistive load, max.: 5 A
### EMC

**Emission of radio interference acc. to EN 55 011**
- Limit class B, for use in residential areas: Yes

### Standards, approvals, certificates

- CE mark: Yes
- CSA approval: Yes
- UL approval: Yes
- FM approval: Yes
- Developed in accordance with IEC 61131: Yes
- Marine approval: Yes

### Ambient conditions

**Ambient temperature during operation**
- min.: 0 °C; ES03 and higher: -20 °C
- max.: 55 °C

### Dimensions

- Width: 35.5 mm
- Height: 90 mm
- Depth: 58 mm

**last modified:** 1/16/2021